

Fig 2

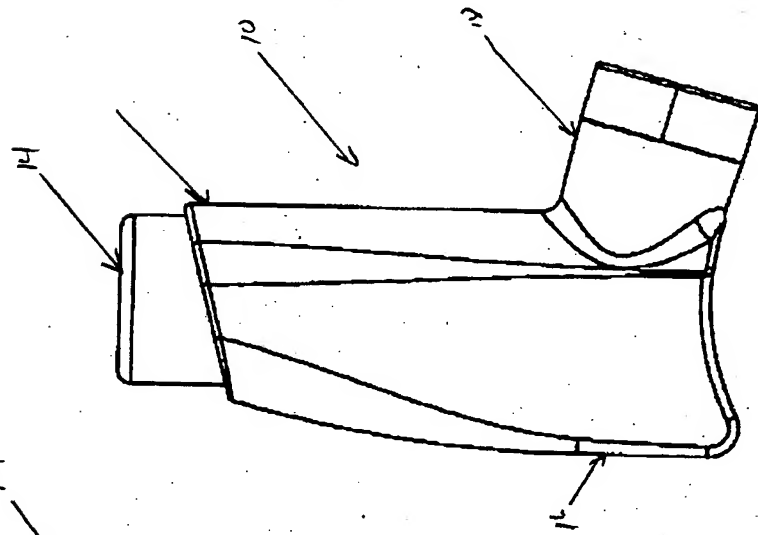


Fig 1

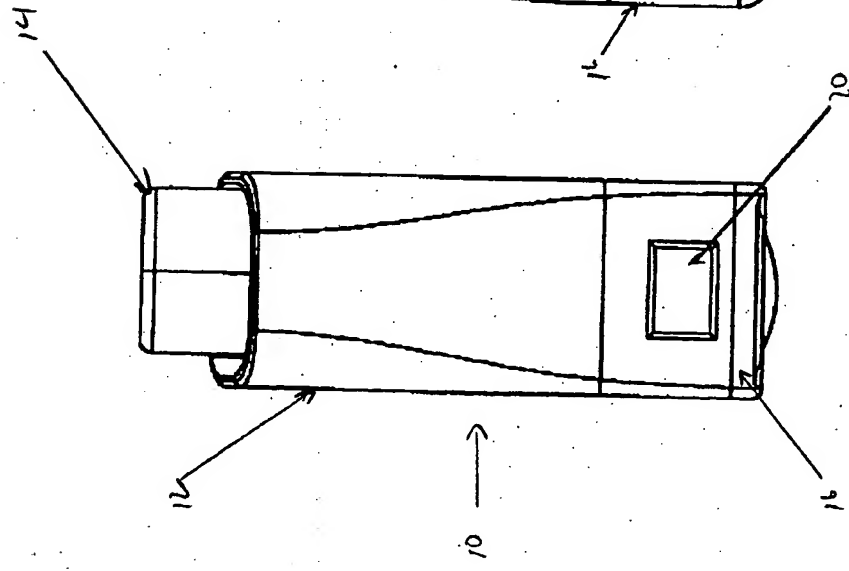
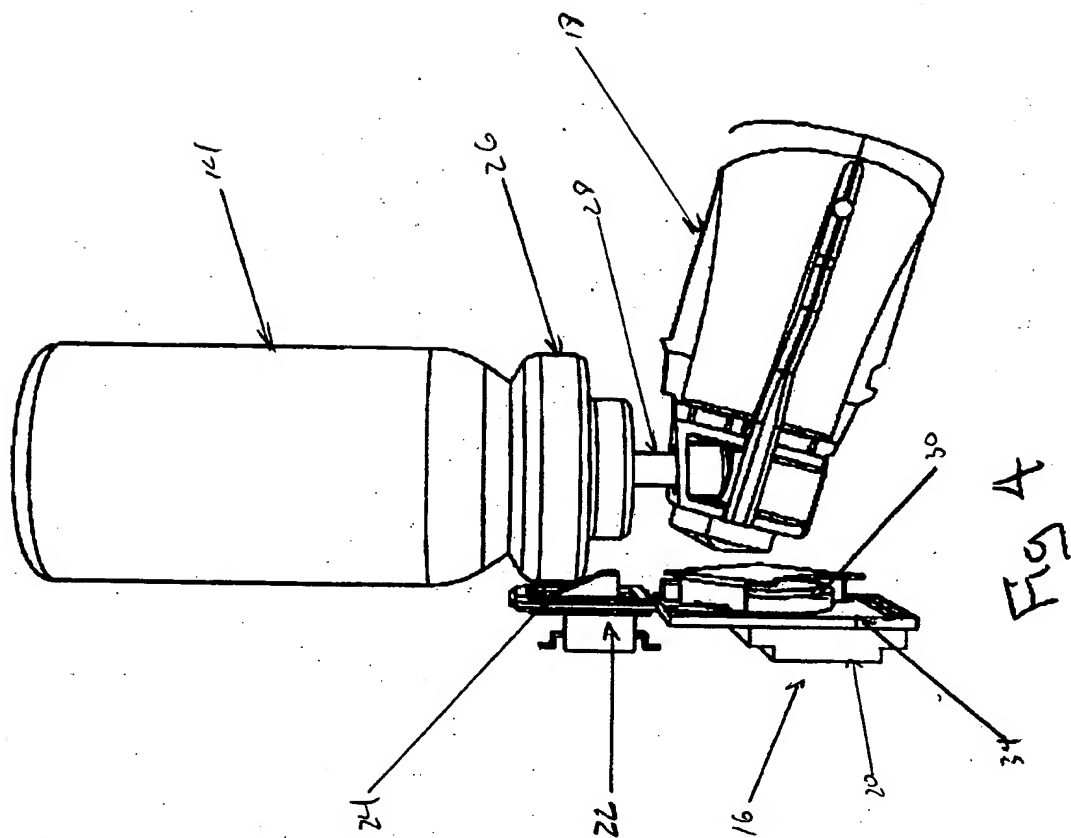


Fig 3



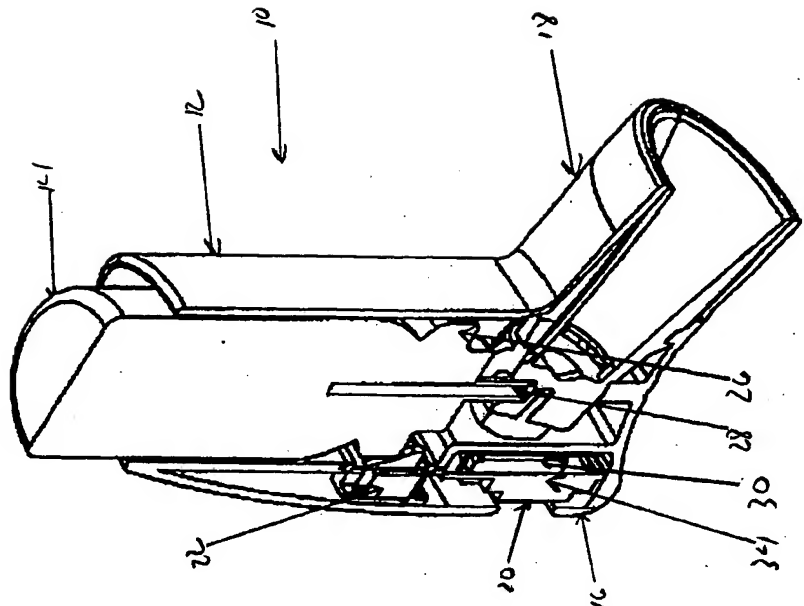


Fig 5

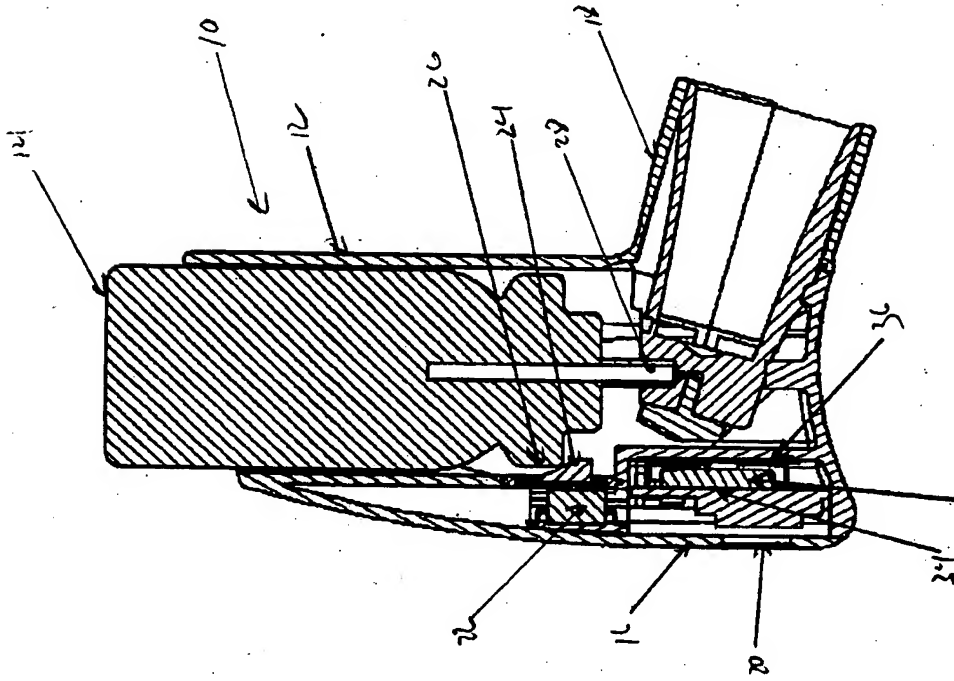


Fig 6

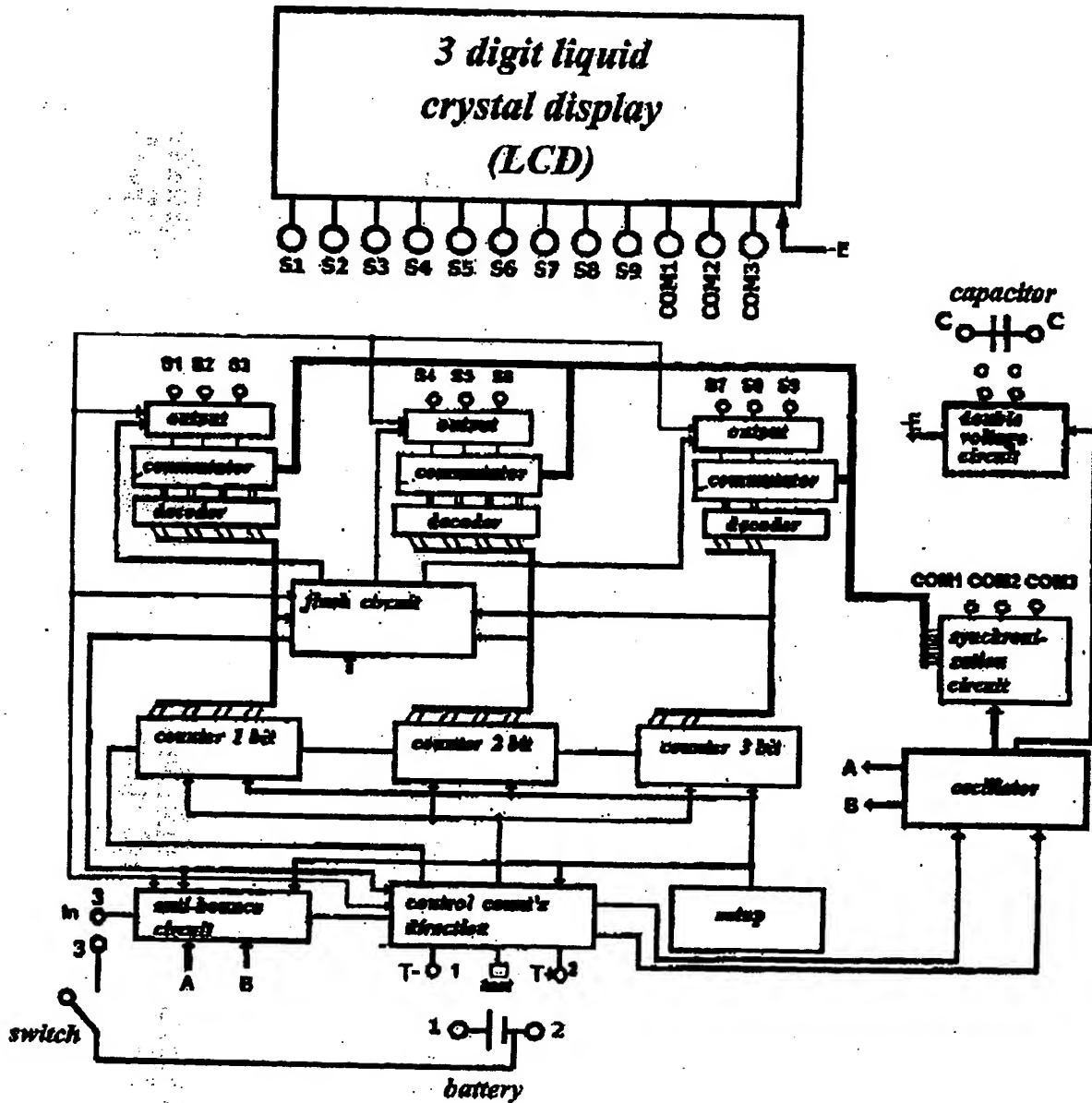
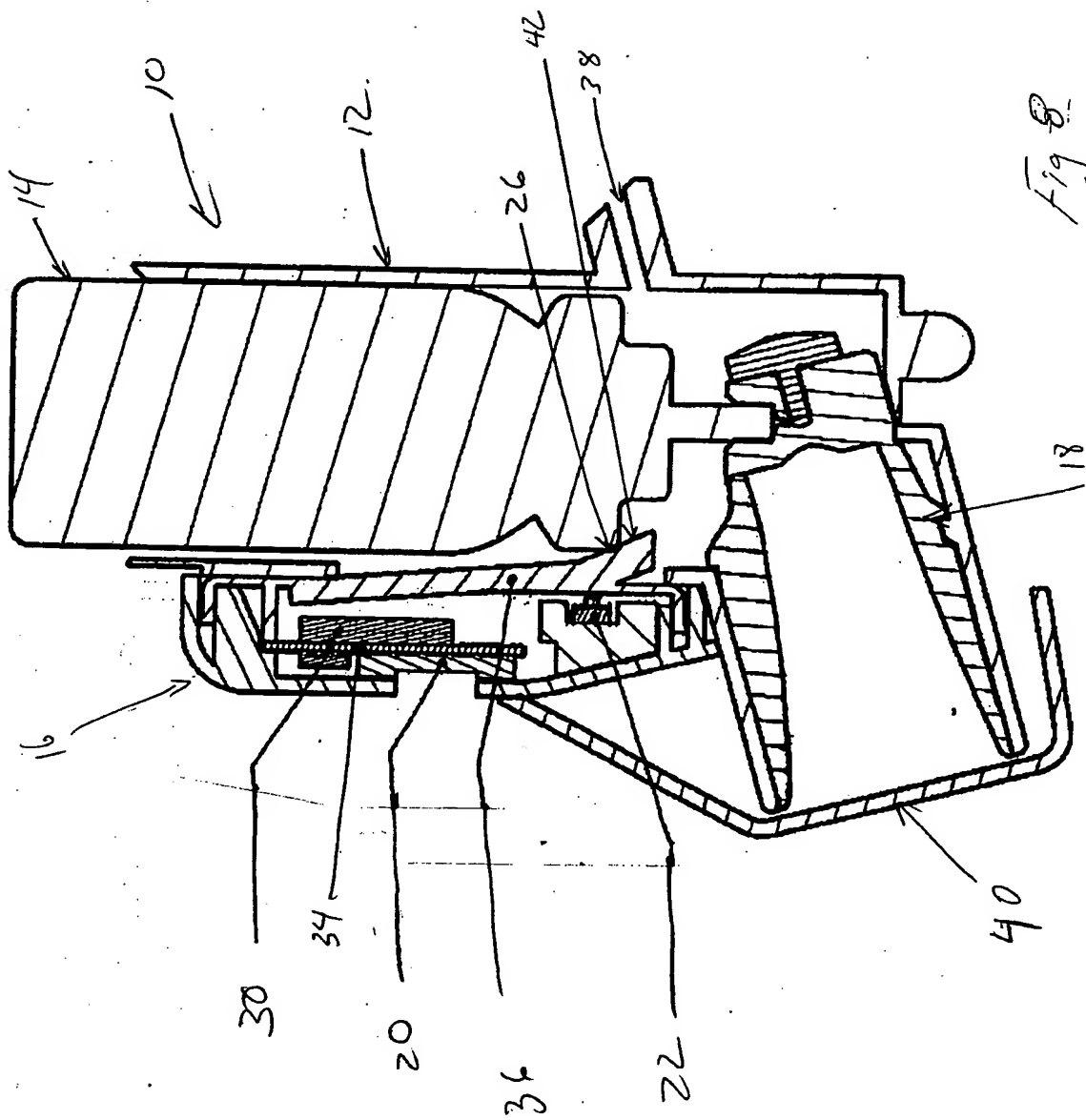


Fig 7



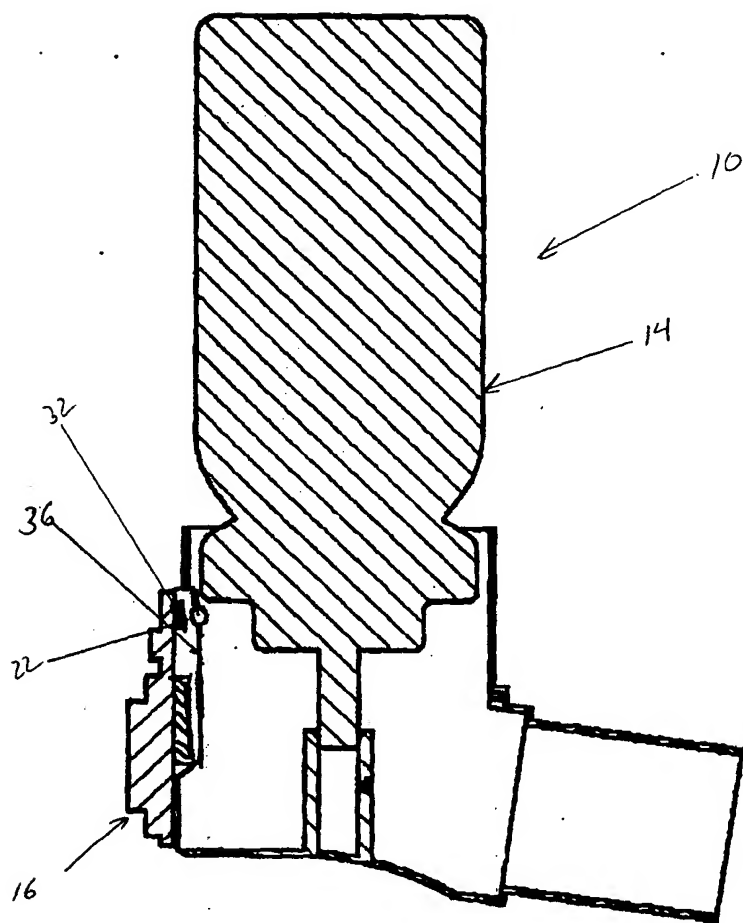


Fig 9

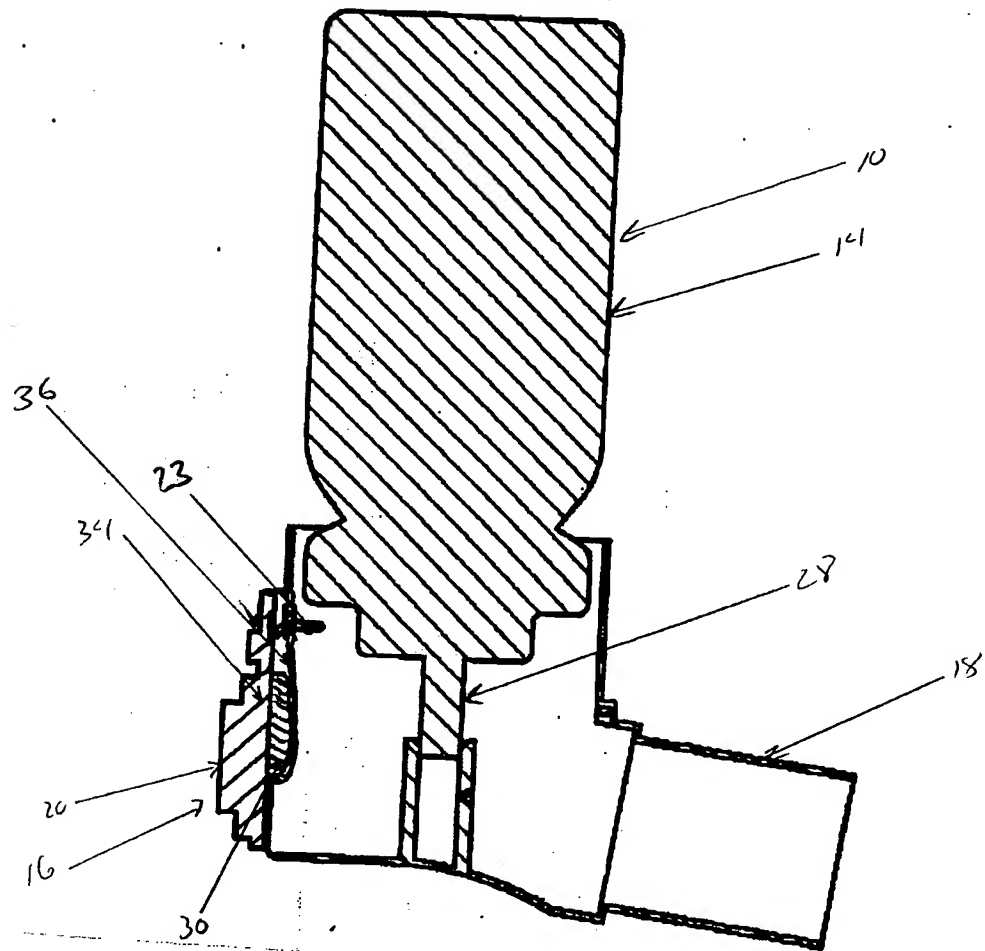


Fig 10

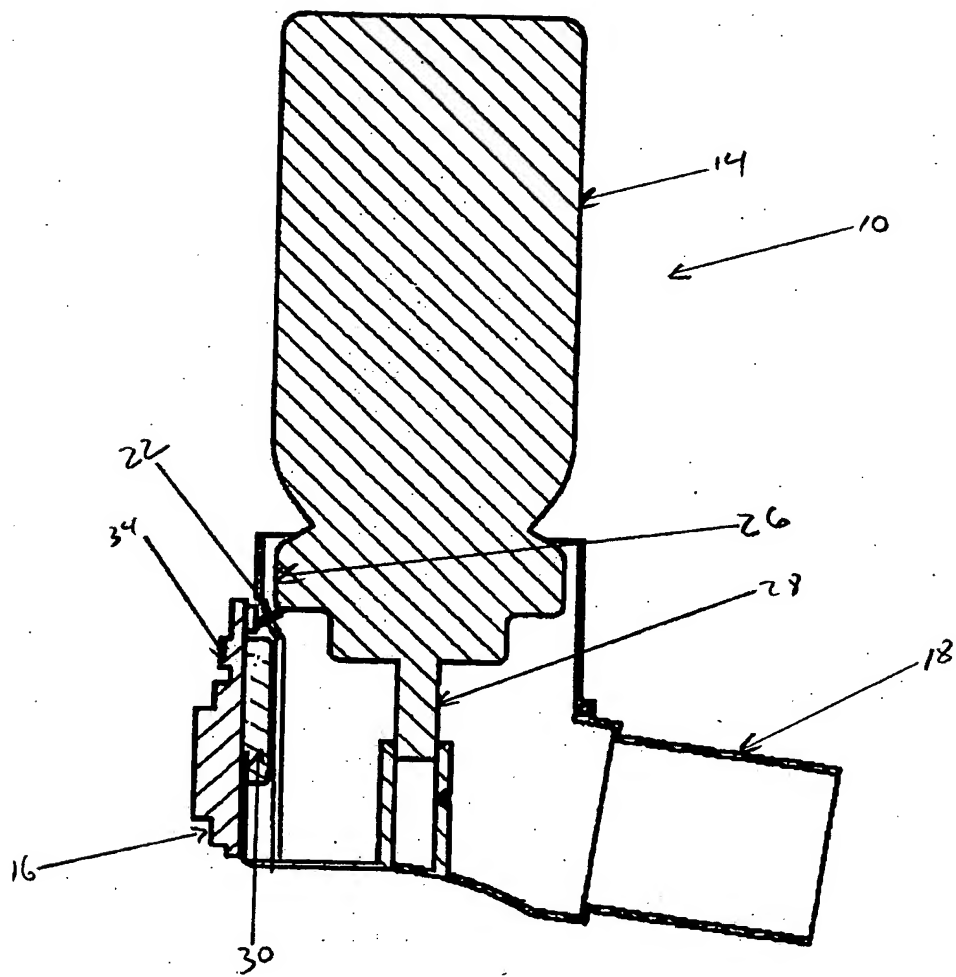


Fig 11

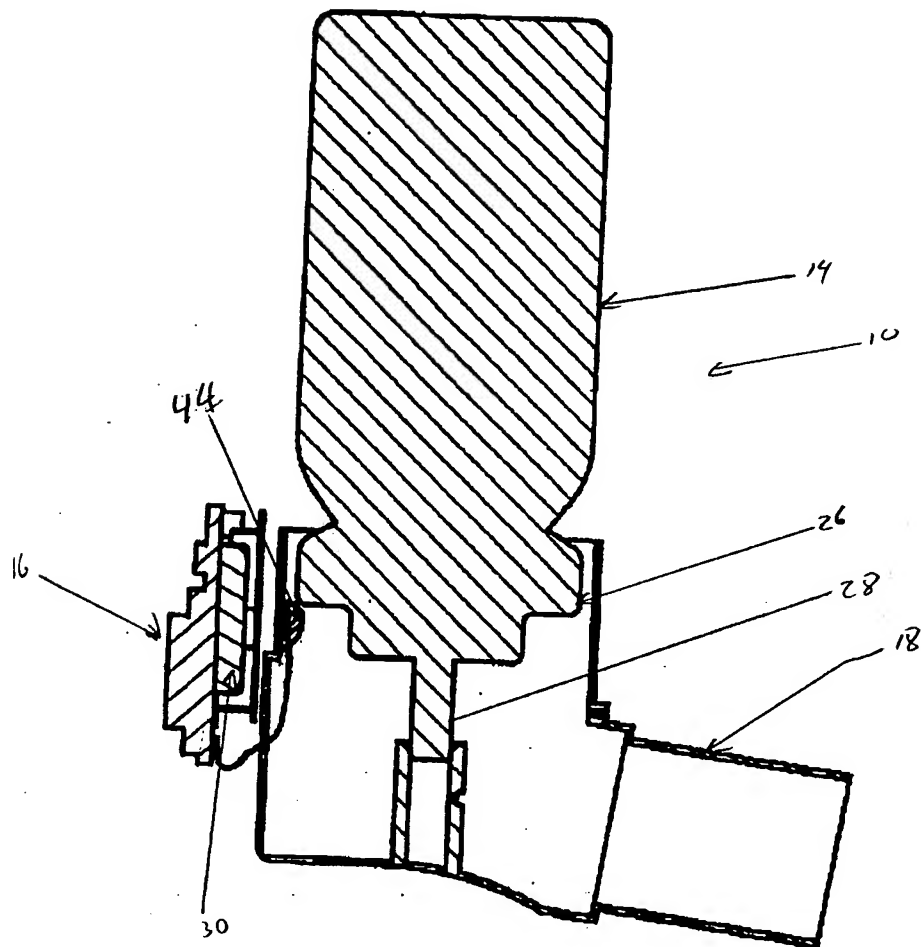


Fig 12

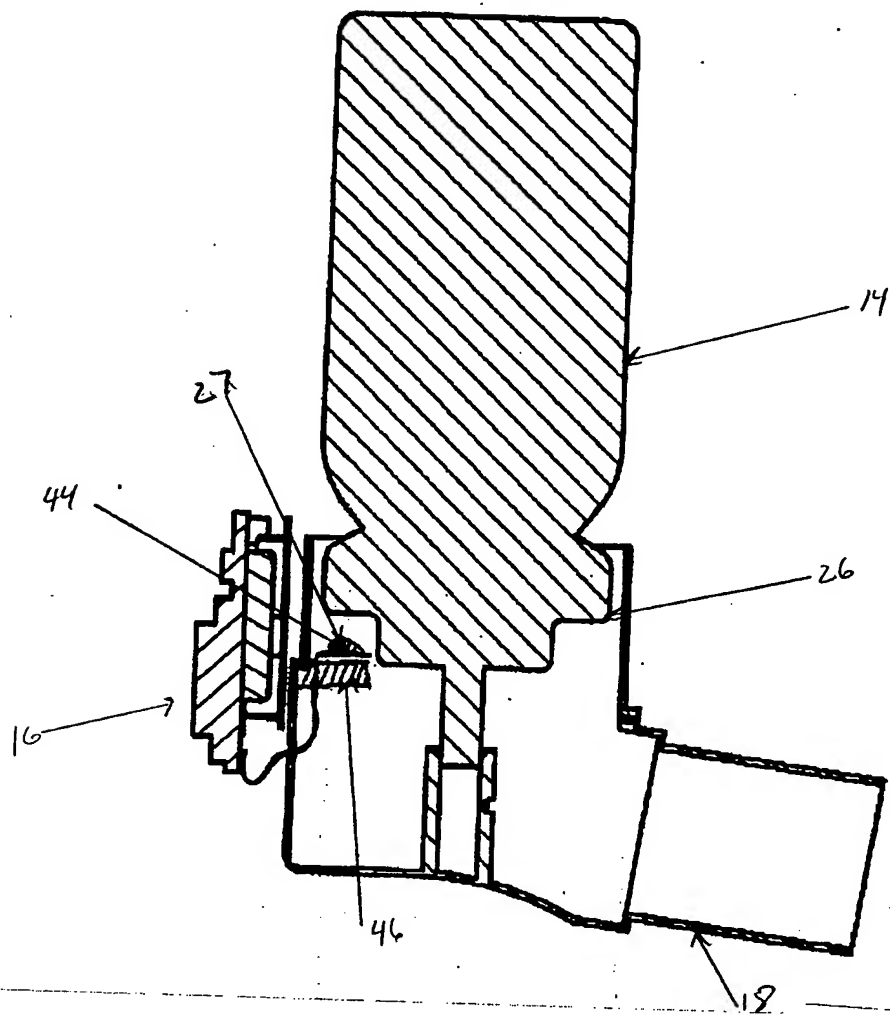


Fig 13

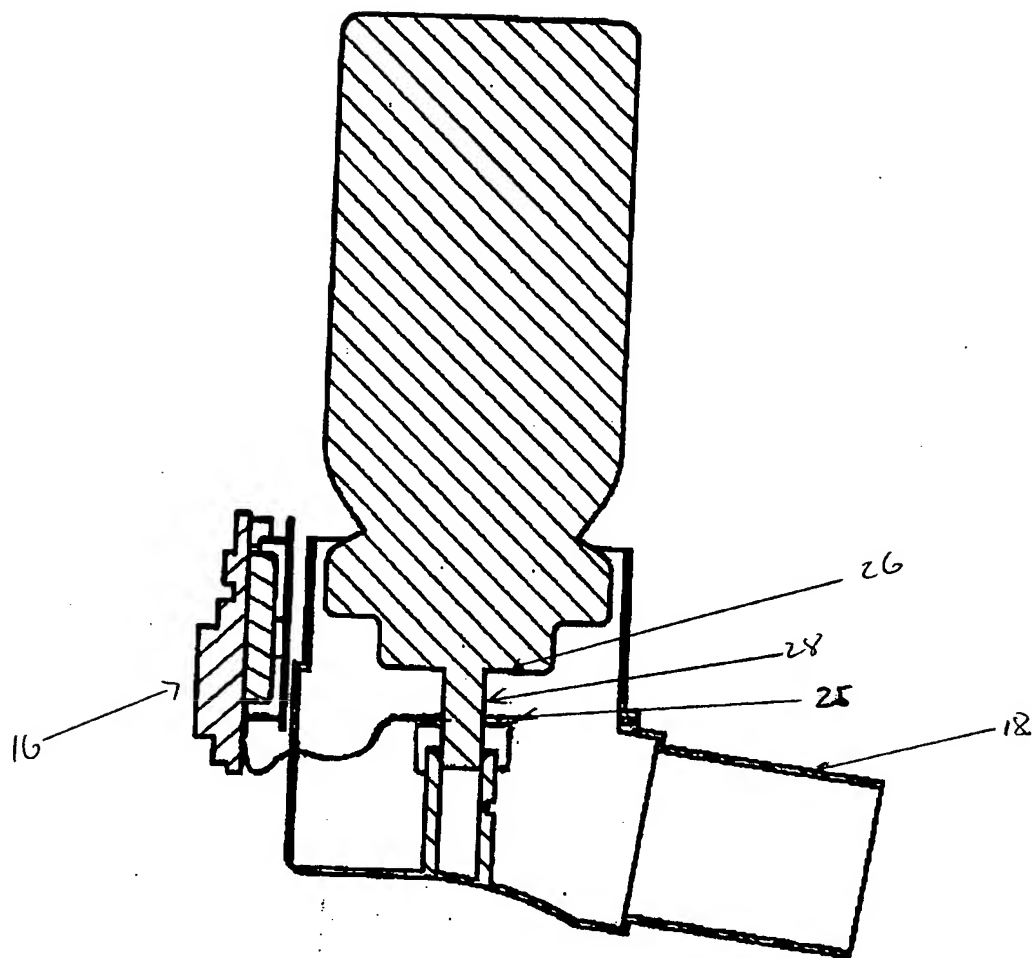


Fig 14

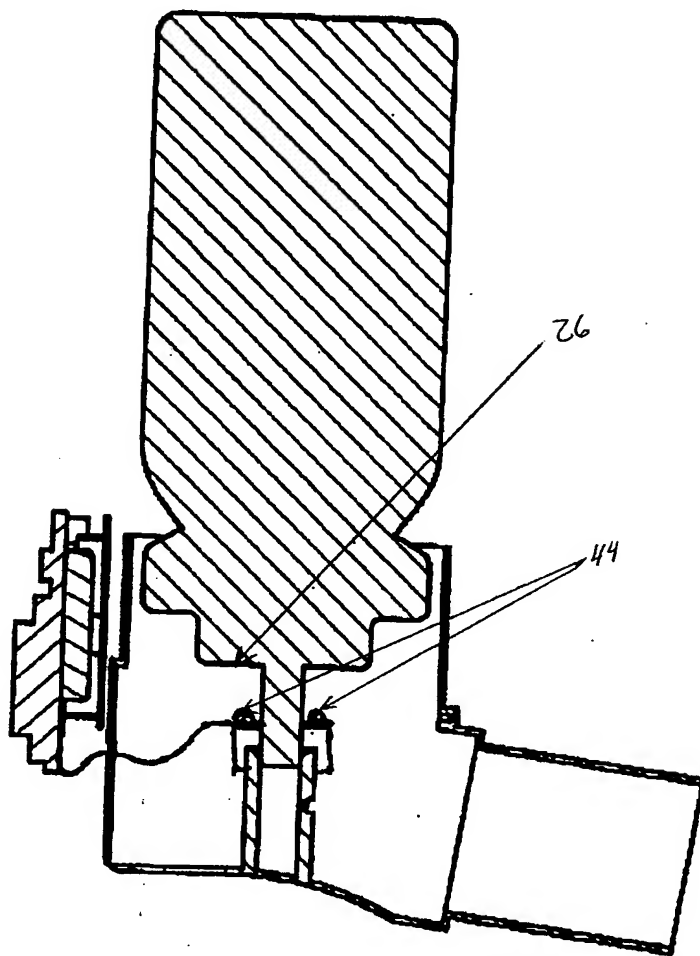


Fig 15

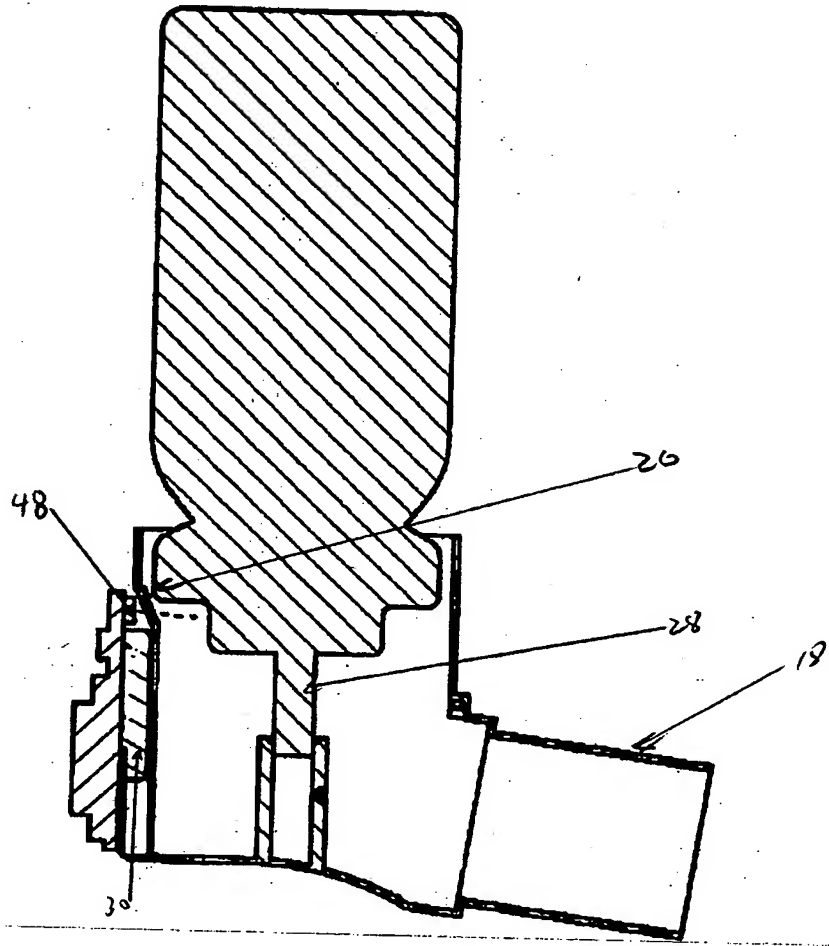
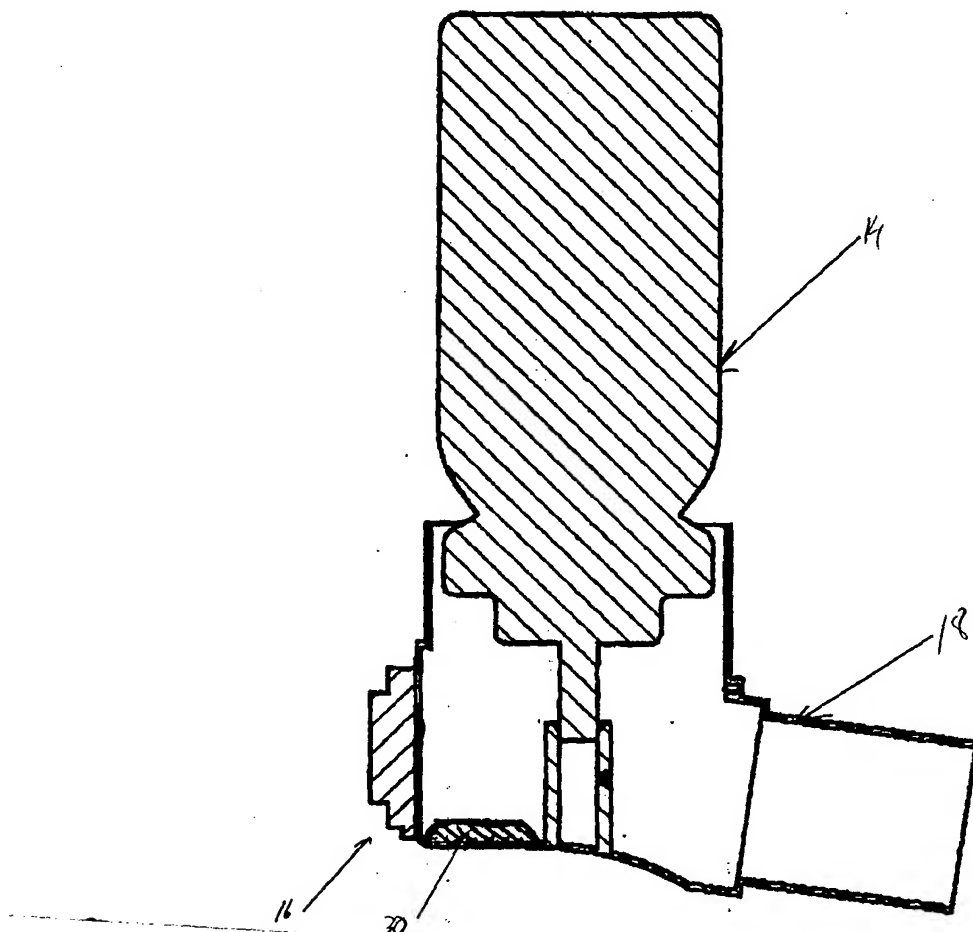


Fig 16



Fig

17

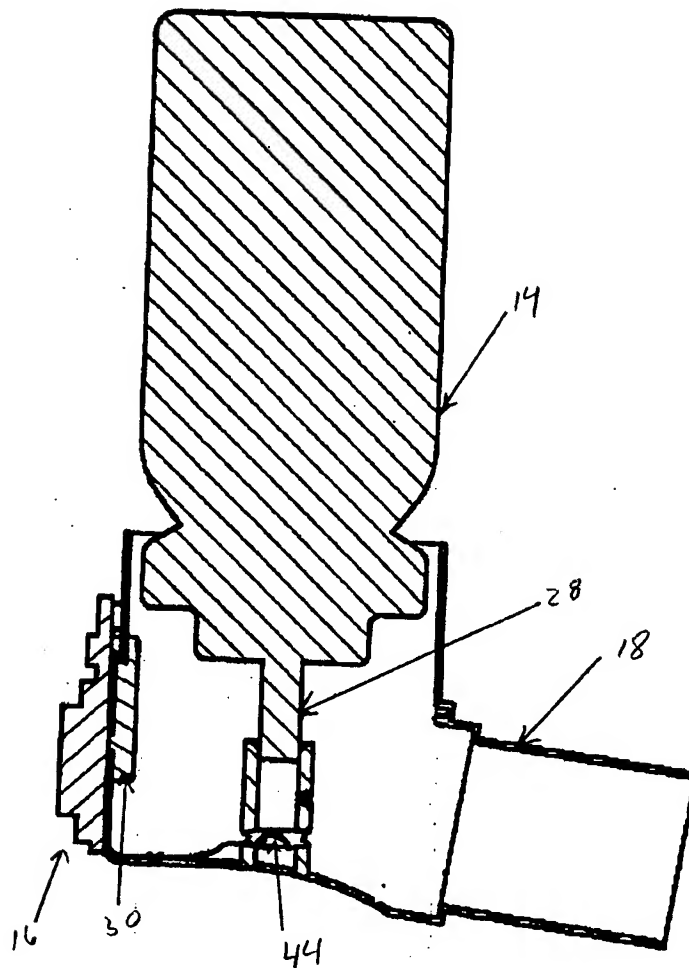
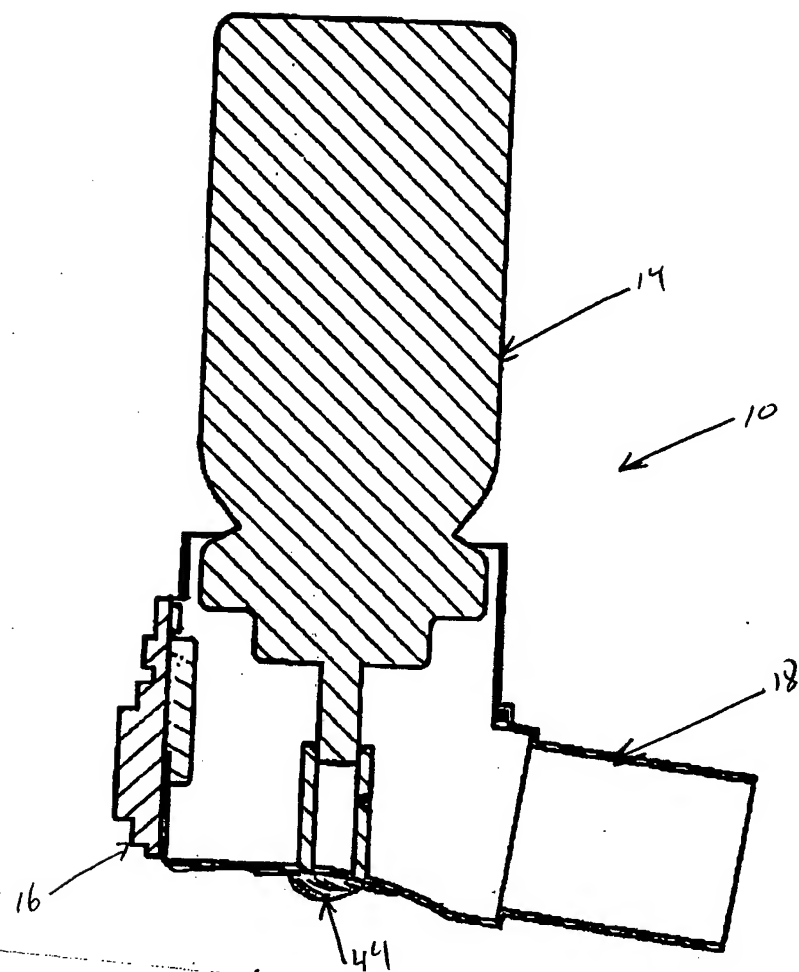


Fig 18



Fig

19

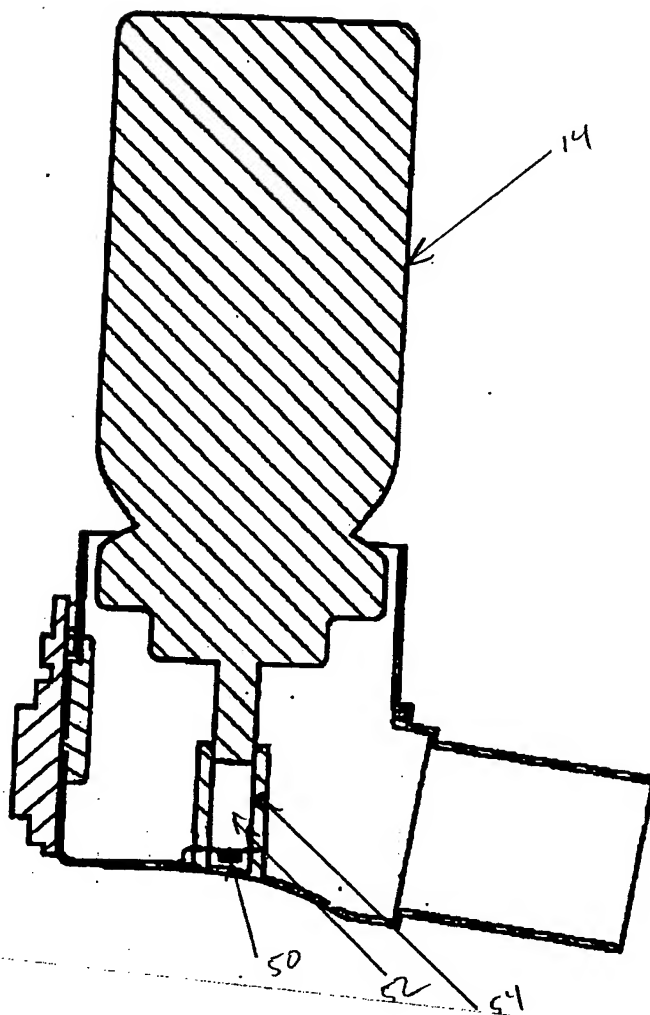
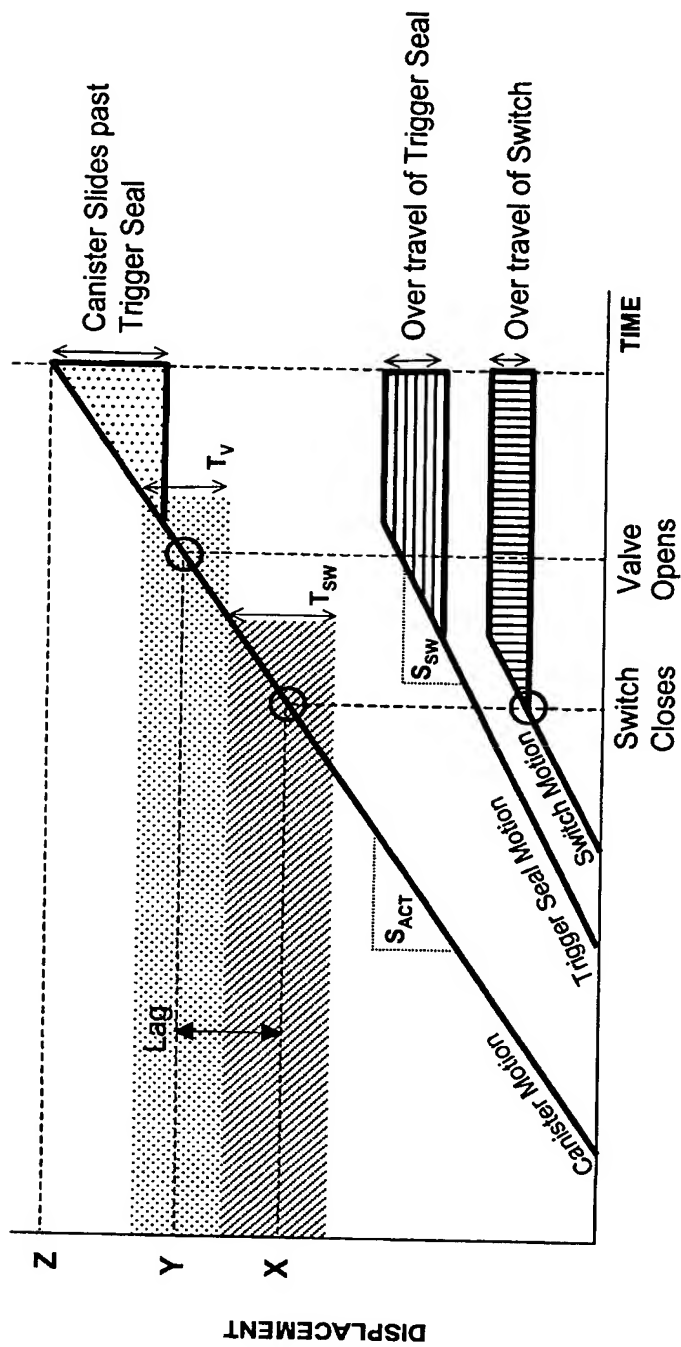


Fig 20



X = Point at which switch closes in electronic counter circuit

Y = Point at which valve opens and medicament begins to dispense

Z = Total canister travel

T_V = Tolerance of valve actuation

T_{SW} = Tolerance of trigger seal and switch assembly

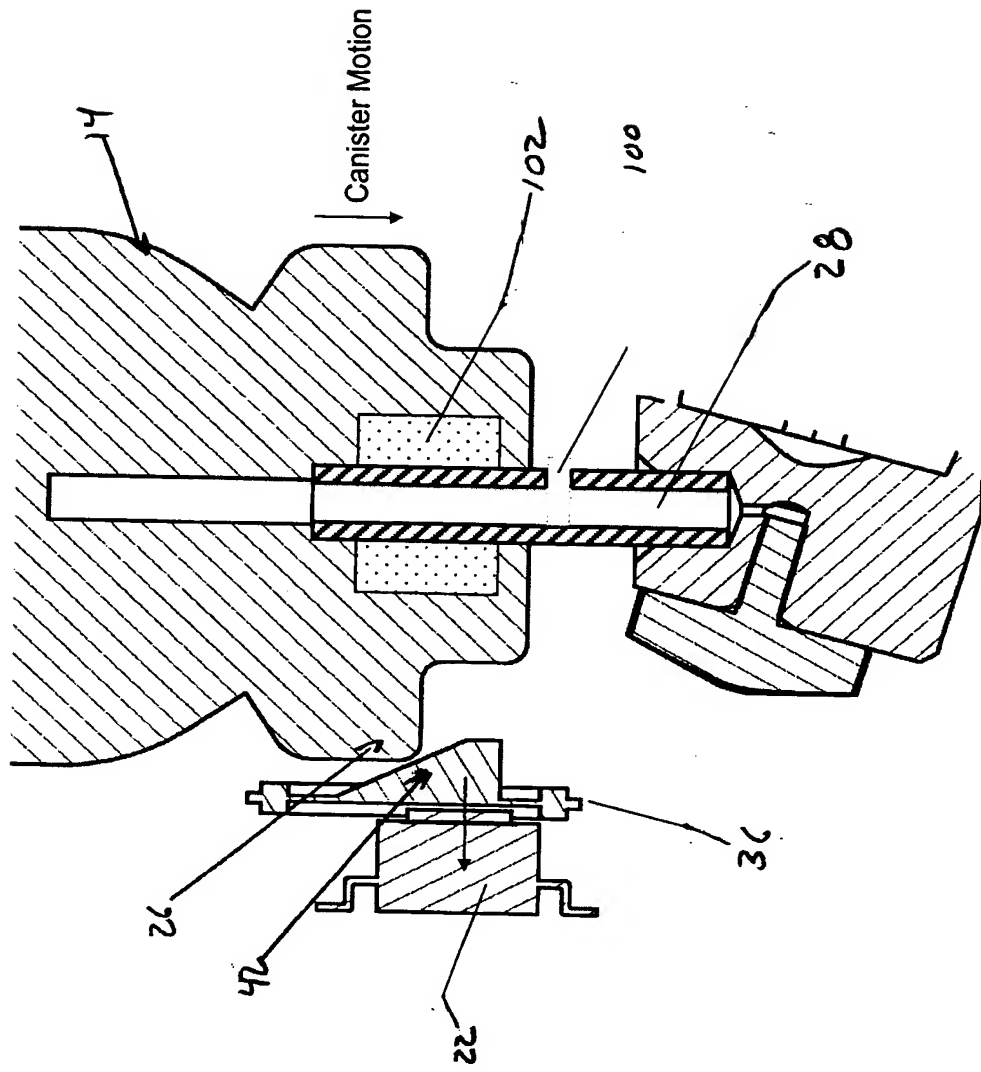
LAG = Difference between switch closure and valve opening – aim to reliably minimize
 $= \frac{1}{2} (T_V + T_{SW})$

S_{ACT} = Slope or dynamic profile of actuation motion

S_{SW} = Slope or dynamic profile of trigger seal and switch motion

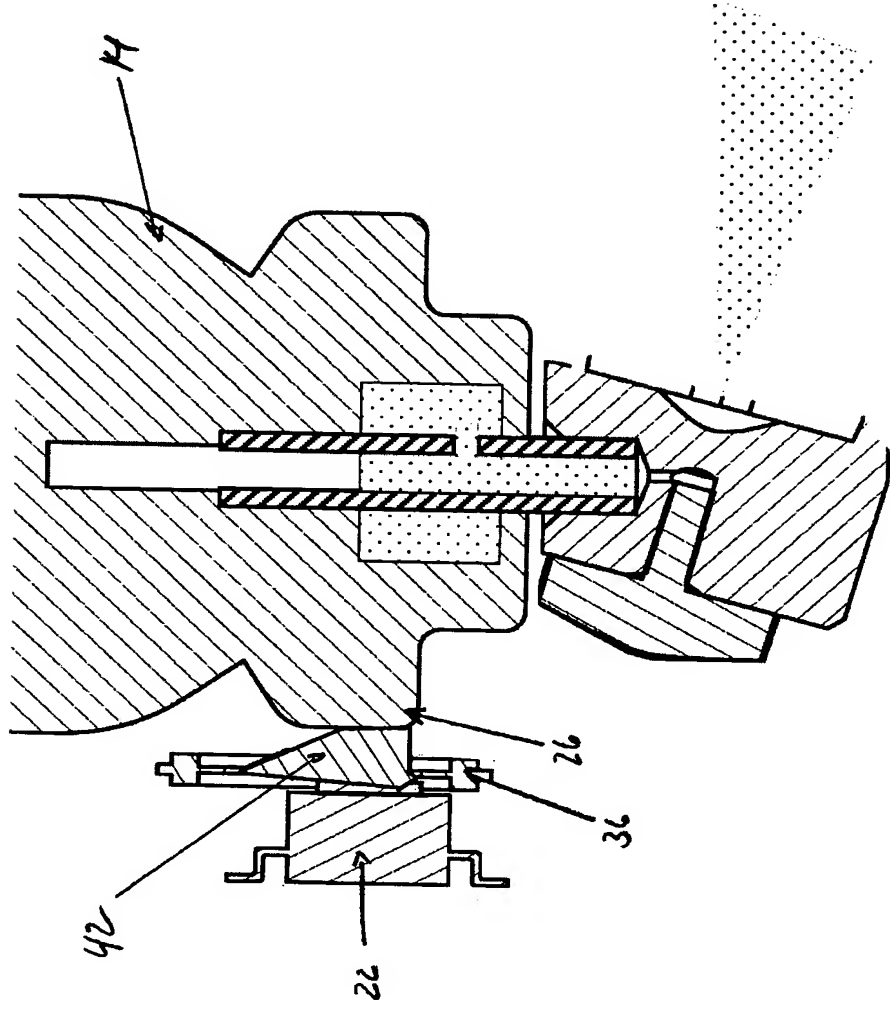
Fig 21

Fig 22a



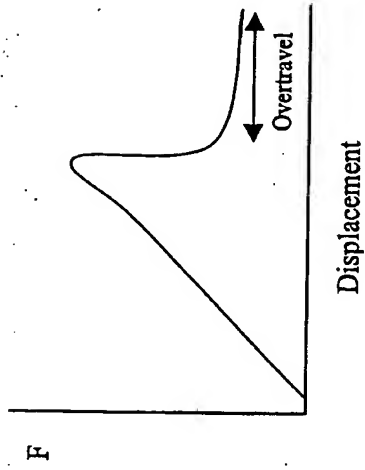
Valve Closed (Switch Open)

Fig 22b



Valve Open (Switch Closed)

Membrane Switch

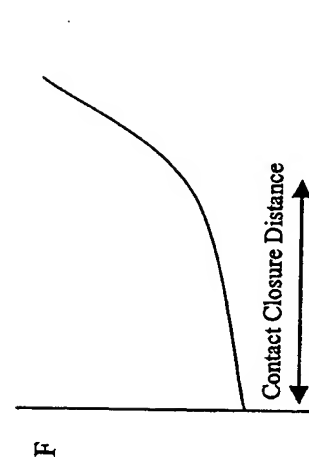
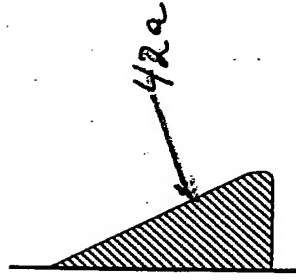


Displacement

Contact Switch

Fig 23a

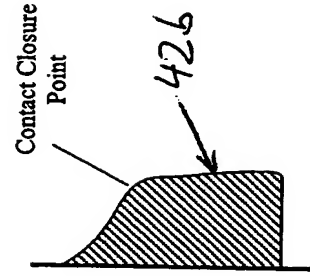
Corresponding Ramp Profile



Displacement

Fig 23b

Corresponding Ramp Profile



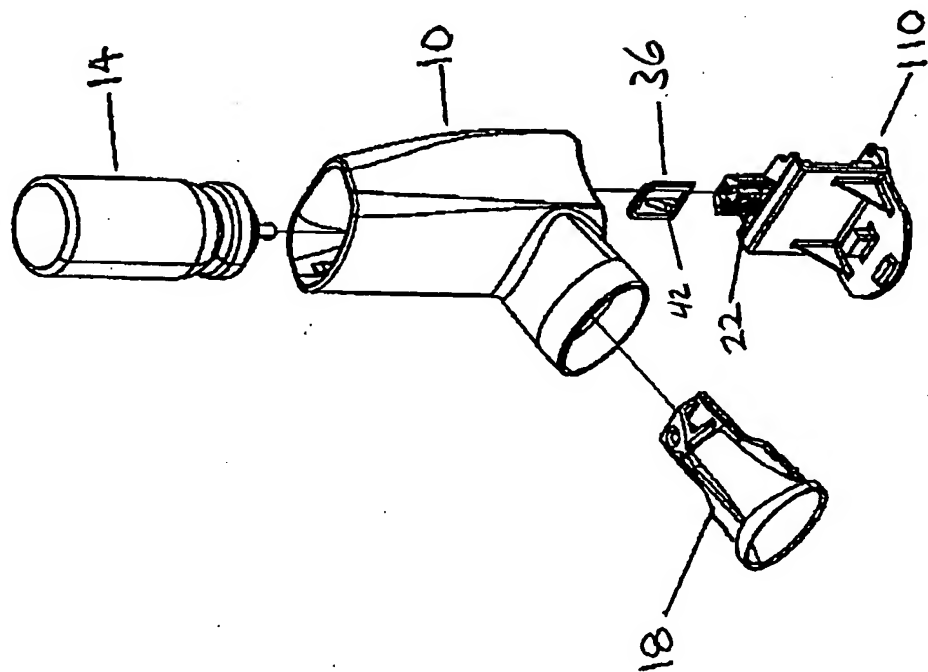
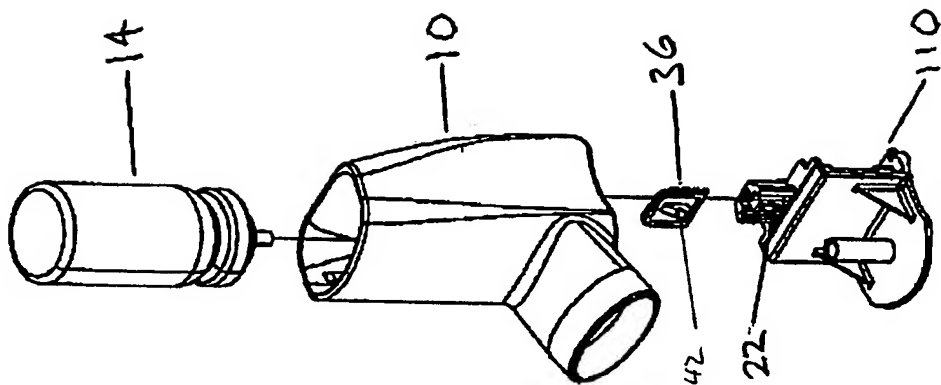


Fig 24a

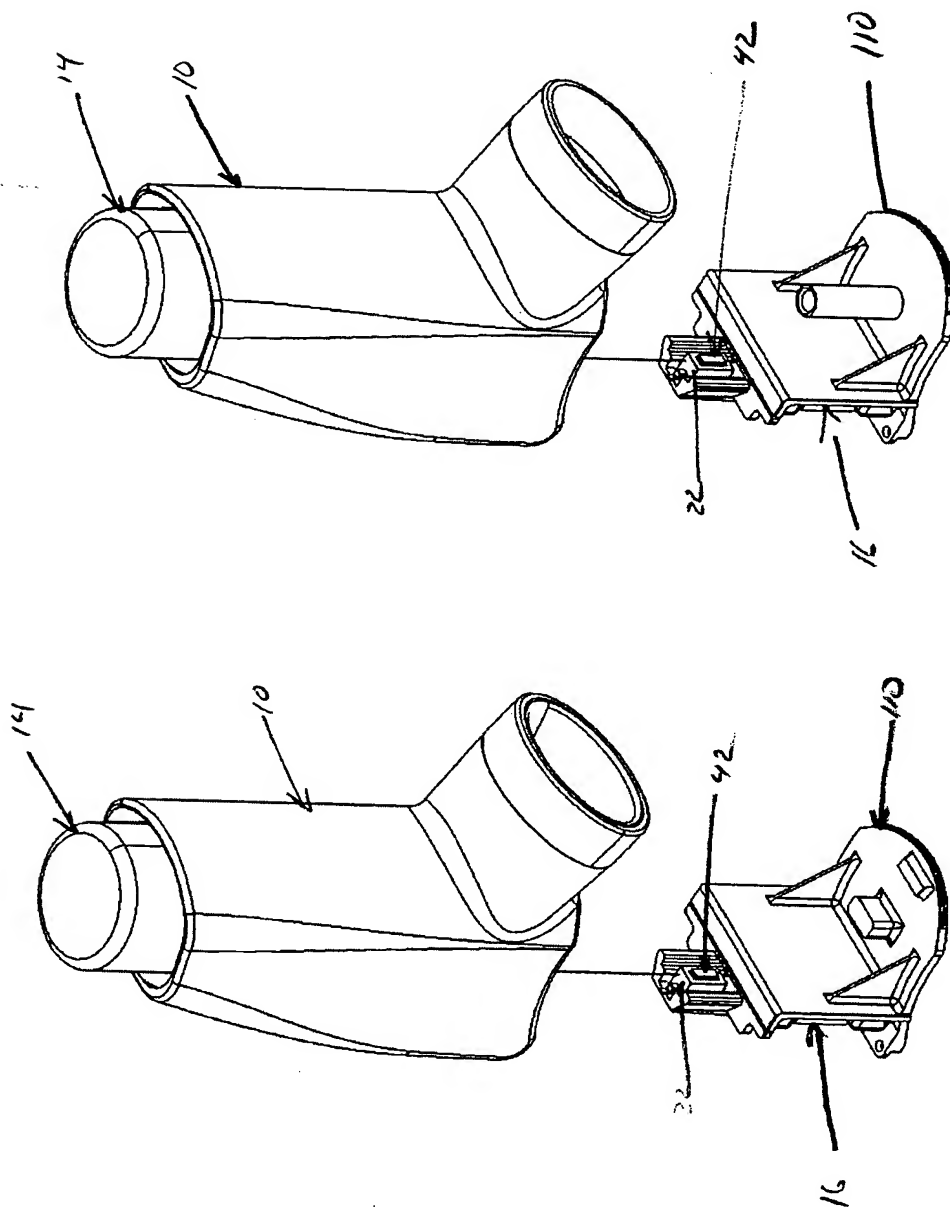


Fig 24b

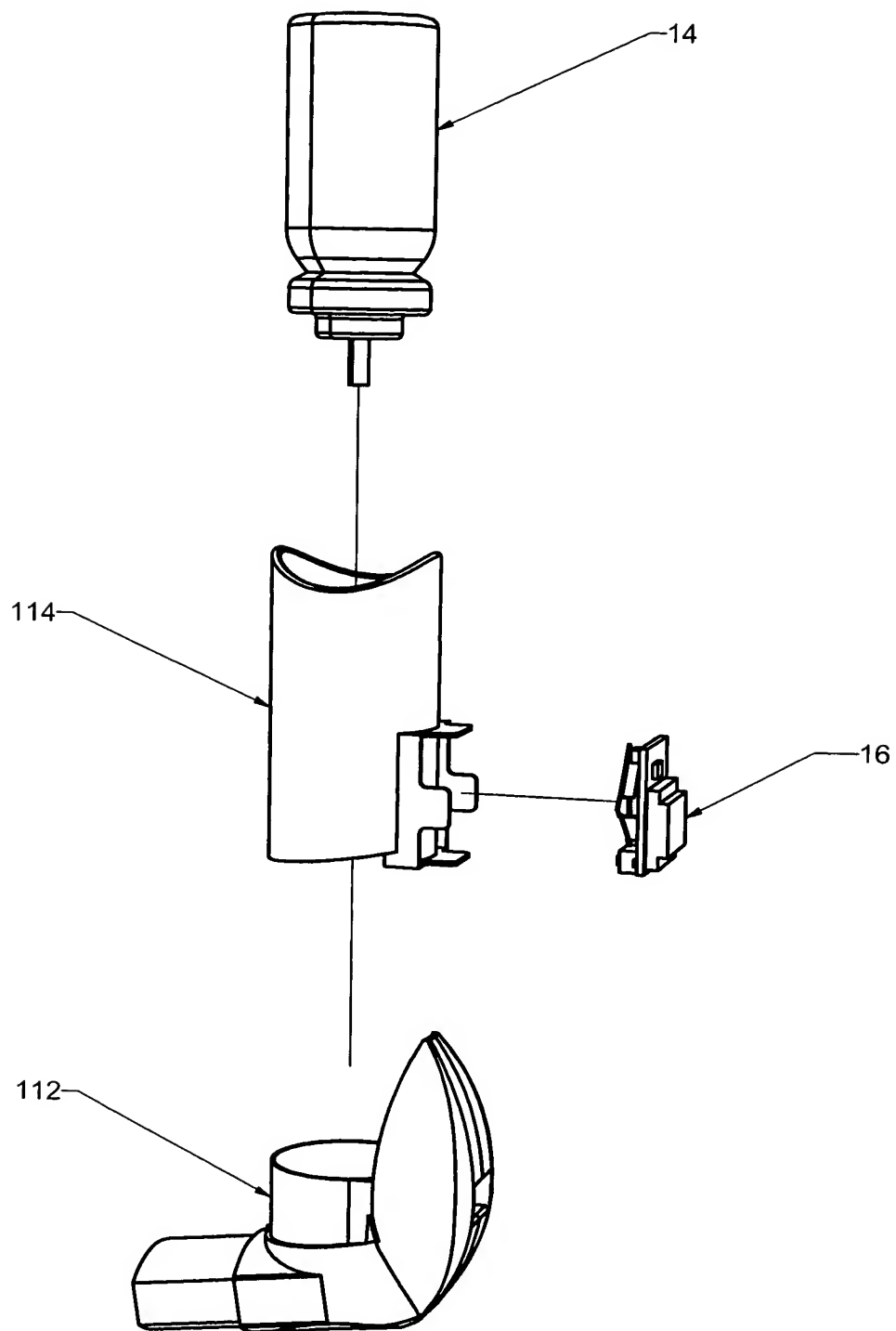


Fig. 25